

## REMARKS

Re-examination and allowance of the present application is respectfully requested.

Applicants respectfully traverse the Examiner's 35 U.S.C. §102(b) rejection of claim 8 as being anticipated by Japanese document HEI 1-117293 to YOSHINO et al., hereinafter YOSHINO. While Applicants disagree with the appropriateness of this rejection, Applicants cancel, without prejudice, claim 8 in order to advance the prosecution of the present application. Cancellation of the claim is not to be taken as an acquiescence of the appropriateness of the rejection, but merely a desire to advance prosecution of this application. Accordingly, Applicant expressly reserves the right to submit similar type claims in another application.

Applicants also respectfully traverse the Examiner's 35 U.S.C. §103(a) rejection of claims 1-7, 9 and 10 as being unpatentable over YOSHINO in view of U.S. Patent Application Publication No. US 2004/0118832 A1 to RYU et al., hereinafter RYU, or U.S. Patent 6,075,715 to MAEHARA et al., hereinafter MAEHARA. Specifically, Applicants submit that the prior art combinations set forth by the Examiner fail to disclose or suggest the various elements of Applicants' invention in the claimed combination, such as, for example, Applicants' variable-frequency controller.

Applicants submit that neither YOSHINO, RYU or MAEHARA disclose or suggest a variable-frequency controller that includes a DC voltage input node to receive a DC voltage, a current source that supplies a switching current for a switching operation of a

switcher in accordance with the DC voltage inputted to the DC voltage input node, and a frequency generator that generates a predetermined frequency in accordance with an amount of the switching current supplied from the current source and outputs the predetermined frequency to the switcher, as specified in Applicants' original dependent claim 5.

By the current amendment, Applicants amend claim 1 to include the variable-frequency subject matter of dependent claim 5. Accordingly, claim 5 is canceled herein. Applicants also cancel, without prejudice, claims 8-10, but reserve the right to submit similar type claims in another application.

As discussed above, Applicants submit that the DC voltage input node, the current source that supplies a switching current, and the frequency generator features in the recited combination are neither disclosed or suggested by the applied art of record, either individually or in combination. Accordingly, Applicants submit that even if one attempted to combine the teachings of the various applied references in the manner suggested by the Examiner, such a combination would fail to include a DC voltage input node that receives a DC voltage, a current source that supplies a switching current for a switching operation of a switcher in accordance with the DC voltage inputted to the DC voltage input node, and a frequency generator that generates a predetermined frequency in accordance with an amount of the switching current supplied from the current source and outputs the predetermined frequency to the switcher. Thus, Applicants submit that the amended claims are allowable

over the applied art of record, requests withdrawal of the various grounds of rejection, and respectfully requests an indication of allowability from the Examiner.

Applicants also submit new claims 11-19 for the Examiner's consideration, which have been drafted in accordance with above discussion. Applicants submit that the applied art of record, fails to disclose/suggest the present invention, as defined by the newly submitted claims, for the same reason discussed above with respect to the amended claims (e.g., the structure of the variable-frequency controller). The Examiner is respectfully requested to indicate the allowability of the newly submitted claims.

#### SUMMARY AND CONCLUSION

In view of the fact that none of the art of record, whether considered alone or in combination, discloses or suggests the present invention as now defined by the pending claims, and in further view of the above amendments and remarks, reconsideration of the Examiner's action and allowance of the present application are respectfully requested and are believed to be appropriate.

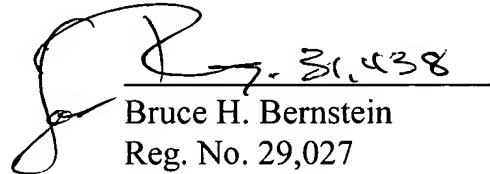
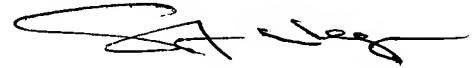
Any amendments to the claims which have been made in this amendment, and which have not been specifically noted to overcome a rejection based upon the prior art, should be considered to have been made for a purpose unrelated to patentability, and no estoppel should be deemed to attach thereto.

Should the Commissioner determine that an extension of time is required in order to render this response timely and/or complete, a formal request for an extension of time, under

37 C.F.R. §1.136(a), is herewith made in an amount equal to the time period required to render this response timely and/or complete. The Commissioner is authorized to charge any required extension of time fee under 37 C.F.R. §1.17 to Deposit Account No. 19-0089.

If there should be any questions concerning this application, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,  
Sung Jin HAN et al.



Bruce H. Bernstein  
Reg. No. 29,027

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GREENBLUM & BERNSTEIN, P.L.C.  
1950 Roland Clarke Place  
Reston, VA 20191  
(703) 716-1191